

CLAIMS

[1] A sprinkler head cover comprising:

a housing adapted to be attached to a sprinkler head which is connected to a water supply piping and in which, in case of fire, a valve disposed inside said sprinkler head is open to allow a fire-extinguishing liquid in said water supply piping to spread around;

a cover plate adapted to cover over said sprinkler head so that said sprinkler head cannot be seen from outside; and

a mount installed in said housing and having a hole inside thereof, wherein

said cover plate and said mount are connected to each other by a low melting point alloy melted out from said hole.

[2] A sprinkler head cover in accordance with claim 1, in which a cover plate connecting surface of said mount has a flange configuration.

[3] A sprinkler head cover in accordance with claim 1 or 2, in which a gap is provided between said cover plate connecting surface of said mount and said cover plate.

[4] A sprinkler head cover in accordance with claim 1 or 2, in which said cover plate has a curved surface configuration and said cover plate connecting surface of said mount defines an inclined-face to be placed in contact with said curved surface of said cover plate.

[5] A sprinkler head cover in accordance with claim 4, in which an aligning means is disposed in said cover plate connecting surface of said mount.

[6] A sprinkler head cover in accordance with claim 1, in which said cover plate and said mount are made of a member having an excellent thermal conductivity and said housing is made of a heat insulating material.

[7] A sprinkler head cover comprising:

a housing adapted to be attached to a sprinkler head which is connected to a water supply piping and in which, in case of fire, a valve disposed inside said sprinkler head is open to allow a fire-extinguishing liquid in said water supply piping to spread around; and

a cover plate adapted to cover said sprinkler head so that said sprinkler head cannot be seen from outside; in which

a flange is formed in a lower portion of said housing, said flange including a through hole penetrating through said flange, wherein said cover plate and said mount are connected to each other by a low melting point alloy melted out from said through hole.

[8] A sprinkler head cover in accordance with claim 7, in which a gap is provided between said flange of said housing and said cover plate.

[9] A sprinkler head cover in accordance with claim 7 or 8, in which

said cover plate has a curved surface configuration and said cover plate connecting surface of said flange defines an inclined-face to be placed in contact with said curved surface of said cover plate.

[10] A sprinkler head cover in accordance with claim 7, in

which said housing is made of heat insulating material and said cover plate connecting surface of said housing is coated with a film comprising a material having an excellent adhesion to said low melting point alloy.

[11] A sprinkler head cover in accordance with claim 1 or 7, in which a leaf spring folded in three is disposed between said housing and said cover plate.

[12] A sprinkler head cover in accordance with claim 11, in which a cuff is disposed in an end of a housing contact surface of said leaf spring.

[13] A sprinkler head, in which said housing of said sprinkler head cover as defined in the above claims can be mounted on said sprinkler head, and a heat collector to be connected with a heat sensitive element disposed in a lower portion of said sprinkler head is allowed to come in contact with said cover plate.

[14] A sprinkler head in accordance with claim 13, in which said heat collector comprises a plurality of heat collectors disposed in layers, and one heat collector placed on the bottom layer is allowed to come in contact with said cover plate.

[15] A sprinkler head in accordance with claim 13, in which one heat collector placed on the bottom layer is made of resilient material and has a plurality of vanes protruding radially in the diagonally downward direction.